

PATENT CLAIMS

1. Moulding composed of a plastics matrix composed of
a transparent plastic, comprising a soluble
5 fluorescent dye and a scattering agent whose
refractive-index difference from the plastics
matrix is +/- from 0.003 to 0.2,

characterized in that

10 a white pigment whose refractive-index difference
from the plastics matrix is from + 0.4 to 1.5 is
also present, at a concentration of from 0.001 to
0.1% by weight.

15 2. Moulding according to Claim 1, characterized in
that the white pigment used comprises titanium
dioxide, zinc oxide or zinc sulphide.

20 3. Moulding according to Claim 1 or 2, characterized
in that the scattering agents present comprise
aluminium hydroxide, aluminium potassium silicate
(mica), aluminium silicate (kaolin), barium
sulphate, calcium carbonate, magnesium silicate
25 (talc), polystyrene, and/or light-scattering beads
composed of crosslinked plastic.

4. Moulding according to one or more of Claims 1 to
30 3, characterized in that its reflectance is higher
by at least 10% than that of a corresponding
moulding without white pigment.

35 5. Moulding according to one or more of Claims 1 to
4, characterized in that the transparent plastic
of the plastics matrix has transmittance of at
least 40% in the visible region (light trans-
mittance for daylight (D65 standard illuminant)
 τ_{D65} , see, for example, DIN 67 507).

6. Moulding according to one or more of Claims 1 to 5, characterized in that the transparent plastic of the plastics matrix is extruded polymethyl methacrylate, cast polymethyl methacrylate, impact-modified polymethyl methacrylate, polycarbonate, polystyrene, styrene-acrylonitrile, polyethylene terephthalate, glycol-modified polyethylene terephthalate, polyvinyl chloride, transparent polyolefin, acrylonitrile-butadiene-styrene (ABS) and/or a mixture (blend) of the plastics mentioned.
7. Moulding according to one or more of Claims 1 to 6, characterized in that the fluorescent dye is present in combination with other colorants.
8. Use of mouldings according to one or more of Claims 1 to 7 for vehicle bodywork, designer furniture, signage, or parts thereof, or for lighting systems, e.g. for illuminated advertising installations.